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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,494	11/12/2001	Cheng-Chang Lee	B-4374 619286-3	6453

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EXAMINER

NGUYEN, HOAN C

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 07/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Applicati n No.

10/010,494

Applicant(s)

LEE ET AL.

Examiner

HOAN C. NGUYEN

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5,7-9 and 11 is/are rejected.
- 7) ☒ Claim(s) 4,6,10 and 12 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

1. Claims 1-3 and 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukuyoshi (US6507484B2).

In regard to claims 1 and 7, Fukuyoshi teaches a liquid crystal display device comprising:

- a frame (a liquid crystal module 4) having at least one first connecting member (a hole 12 and a hook 13);
- a back light unit (reference numeral 8 is a chassis having a back light unit that is built-in) disposed on the frame;

- a liquid crystal panel 7 disposed on the back light unit;
- a first cover (a front cover 6) having at least one second connecting member (projection 11), wherein the first cover combines with the frame by the engagement between the first connecting member and the second connecting member;
- a second cover (a back cover 5) having at least one third connecting member (a recess 14), wherein the second cover combines with the frame by the engagement between the first connecting member and the third connecting member while the frame, the back light unit and the liquid crystal panel are located between the first cover and the second cover.

wherein (according to claims 2 and 8)

- the first connecting member is provided with a first slot and a second slot (a hole 12 and a hook 13),
- the second connecting member is a first protrusion (projection 11) corresponding to the first slot,
- the third connecting member is a second protrusion (generated by surrounding of a recess 14) corresponding to the second slot,

whereby the first cover combines with the frame by the engagement between the first slot and the first protrusion, and the second cover combines with the frame by the engagement between the second slot and the second protrusion; wherein the first protrusion, engaging with the first slot, is not in contact with the second protrusion engaging with the second slot (claims 3 and 9).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 5 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuyoshi (US6507484B2) as applied to claims 1-3 and 7-9 in view of Yang (US6480307B1).

Yang teaches (Fig. 7, col. 6 line 45 to col. 7 line 3), for manufacturing holographic light-guide, the back light unit comprises:

- a reflector disposed on the frame;
- a light guide disposed on the reflector;
- a first diffuser disposed on the light guide;
- a first prism sheet disposed on the first diffuser;
- a second prism sheet disposed on the first prism sheet;
- a second diffuser disposed on the second prism sheet.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the back light unit as Fukuyoshi disclosed with all features in claims 5 and 11 for manufacturing holographic light-guide.

Allowable Subject Matter

Claims 4, 6, 10 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter:

Claims 4 and 10 are allowable since there is no prior art teaches a frame having at least one first connecting member, which is made of plastic; a first cover having at least one second connecting member; a second cover having at least one third connecting member; wherein the first and second covers combine with the frame by the engagement between the first connecting member and the second and third connecting member while the frame, the back light unit and the liquid crystal panel are located between the first cover and the second cover.

Claims 6 and 12 are allowable since they depend on the allowable claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Ohgami et al. (US5905550A) disclose a display device comprises a box-shaped casing having an opening for display, and a display unit contained in the casing, the display unit having a display screen exposed to the opening.

Kurihara et al. (US5946061A) disclose a fixture and fixing method of LCD panel.

Sugiyama et al. (US6392723B1) disclose the bezel is joined to the frame in a manner such that its one long side portion is fitted in its corresponding long side portion of the frame and the other long side portion in engagement with its corresponding long side portion of the frame.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (703) 306-0472. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0530.

HOAN C. NGUYEN
Examiner
Art Unit 2871

chn
July 7, 2003


TOANTON
PRIMARY EXAMINER